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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,040	12/12/2003	Michael C. VanZandt	5017D3C1	2497	
	590 08/11/2004	EXAMINER			
JEFFREY M. GREENMAN BAYER PHARMACEUTICALS CORPORATION 400 MORGAN LANE			SACKEY, EE	SACKEY, EBENEZER O	
			ART UNIT	PAPER NUMBER	
WEST HAVEN	N, CT 06516		1626		

DATE MAILED: 08/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

This action is FINAL. 2b This action is non-final.		Application No.	Applicant(s)
ERECETER SACKEY 1266	Office Action Summers	10/735,040	VANZANDT ET AL.
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DETAILED ACTION

Status of Claims

Claims 1-7 are pending.

Specification

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 5, 6 and 7 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a

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way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention for the scope of diseases which are being claimed.

For rejections under 35 U.S.C. 112, first paragraph, the following factors must be considered (In re Wands, 8 USPQ2d 1400, 1404 (CAFC, 1988)):

- 1) Nature of invention.
- 2) State of prior art.
- 3) Quantity of experimentation needed to make or use the invention based on the content of the disclosure
 - 4) Level of predictability in the art.
 - 5) Amount of direction and guidance provided by the inventor.
 - 6) Existence of working examples.
 - 7) Breadth of claims.
 - 8) Level of ordinary skill in the art.

See below:

In the instant case, applicants are claiming a method of alleviating the effects of osteoarthritis, rheumatoid arthritis, septic arthritis, conditions leading to inflammatory responses etc (claims 5 and 6) and retardation of tumor metastasis (claim 7).

1) Nature of the invention.

The nature of the invention is methods of treating various conditions or diseases, comprising administering the instant compounds to a patient in need thereof.

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2) State of the prior art and the predictability or lack thereof in the art.

There are no known compounds of similar structure known to have such a range of uses in the prior art.

The instantly claimed invention is highly unpredictable as discussed below:

It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. *In re Fisher,* 427 F.2d 833, 166 USPQ 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statue. Further, their mode of action is often unknown or very unpredictable and administration of the drugs can be accompanied by undesirable side effects".

Thus, in the absence of a showing of correlation between all the diseases claimed as capable of being treated by compounds of the instant claims, one of ordinary skill in the art is unable to fully predict efficacy from the administration of the compounds.

3) Quantity of experimentation needed to make or use the invention based on the content of the disclosure.

The quantity of experimentation needed is undue given the current level of skill in the art as evidenced by Birkedal-Hansen et al., which emphasizes how preliminary the findings are regarding inhibition of various metalloproteinases. On page 227, note the statement "There is still only little direct evidence of the specific role of various enzymes and their inhibitors in well defined biological processes." There is no statement in this extensive publication that MMP inhibitory activity is art-recognized of in vivo efficacy. See Birkedal-Hansen et al., Critical Reviews in Oral Biology and Medicine, 4(2): 197-250 (1993).

5) Amount of direction and guidance provided by the inventor.

The amount of direction or guidance present is found on pages 62-64 wherein *in vitro* fluorescence assay for MMP inhibition is provided. However, such testing is not stated to be indicative of <u>in vivo</u> success. Note *Hoffman v. Klaus*, 9 USPQ 2d 1657 regarding the standard of testing that is necessary to establish the likelihood of <u>in vivo</u> use. Also see *Ex parte Powers*, 220USPQ 925.

6) Existence of working examples.

As discussed above, working example is found on pages 62-64 wherein in vitro fluorescence assay for MMP inhibition is provided. Applicant's limited working example does not enable one of ordinary skill in the art to treat the numerous amounts of diseases encompassed by the instant invention.

7) Breadth of claims.

Claim 5 is extremely broad due to the vast number of possible diseases encompassed by the instant invention. In addition, alleviation of for example osteoarthritis means the claim could possibly mean, "preventing osteoarthritis."

Hence, the specification fails to provide sufficient support of the broad use of the compounds of the claims for the treatment of any disease. As a result necessitating one of ordinary skill in the art to perform an exhaustive search for which diseases can be treated by what compounds of the instant claims in order to practice the claimed invention.

Genentec Inc. V. Novo Nordisk A/S (CAFC) 42 USPQ 2D 1001, states that:

"a patent is not a hunting license. It is not a reward for search, but compensation for its successful conclusion" and "[p]atent protection is granted in

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return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

Therefore, in view of the Wands factors, and *In re Fisher* (CCPA 1970) discussed above, to practice the claimed invention herein, a person of ordinary skill in the art would have to engage in undue experimentation to test which diseases can be treated by the compounds encompassed in instant claims, with no assurance of success.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-7 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 5,925,637. Although the conflicting claims are not identical, they are not patentably distinct from each other because the subject matter elected in U.S. '637' is also embraced herein.

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Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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Claims 1-7 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 6,225,314. Although the conflicting claims are not identical, they are not patentably distinct from each other because the subject matter elected in U.S '314' is also embraced herein.

If applicants choose to traverse this rejection, then applicants should elect one of the disclosed R⁴⁰ substituents in claim 1.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E. Sackey whose telephone number is (703) 305-6889. The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane, can be reached on (703) 308-4537. The fax phone number for this Group is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

EOS

August 6, 2004

EMILY BERNHARDT PRIMARY EXAMINER

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